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1 Fast detection of communication patterns in distributed executions **80%**



Thomas Kunz , Michiel F. H. Seuren

Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research November 1997

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Industrial sessions: beyond relational tables: Garlic: a new flavor of **80%**



federated query processing for DB2

Vanja Josifovski , Peter Schwarz , Laura Haas , Eileen Lin

Proceedings of the 2002 ACM SIGMOD international conference on Management of data June 2002

In a large modern enterprise, information is almost inevitably distributed among several database management systems. Despite considerable attention from the research community, relatively few commercial systems have attempted to address this issue. This paper describes new technology that enables clients of IBM's DB2 Universal Database to access the data and specialized computational capabilities of a wide range of non-relational data sources. This technology, based on the Garlic prototype deve ...

3 Interoperability of multiple autonomous databases **77%**



Witold Litwin , Leo Mark , Nick Roussopoulos


ACM Computing Surveys (CSUR) September 1990

Volume 22 Issue 3

Database systems were a solution to the problem of shared access to heterogeneous

files created by multiple autonomous applications in a centralized environment. To make data usage easier, the files were replaced by a globally integrated database. To a large extent, the idea was successful, and many databases are now accessible through local and long-haul networks. Unavoidably, users now need shared access to multiple autonomous databases. The question is what the corresponding methodology ...

4 Requirements interaction management 77%


 William N. Robinson , Suzanne D. Pawlowski , Vecheslav Volkov

ACM Computing Surveys (CSUR) June 2003

Volume 35 Issue 2

Requirements interaction management (RIM) is the set of activities directed toward the discovery, management, and disposition of critical relationships among sets of requirements, which has become a critical area of requirements engineering. This survey looks at the evolution of supporting concepts and their related literature, presents an issues-based framework for reviewing processes and products, and applies the framework in a review of RIM state-of-the-art. Finally, it presents seven research ...


5 Risks to the public: Risks to the public in computers and related systems 77%

 Peter G. Neumann

ACM SIGSOFT Software Engineering Notes May 2002

Volume 27 Issue 3

6 Mixed-initiative interaction = mixed computation 77%


 Naren Ramakrishnan , Robert Capra , Manuel A. Pérez-Quiriones

ACM SIGPLAN Notices , Proceedings of the 2002 ACM SIGPLAN workshop on Partial evaluation and semantics-based program manipulation January 2002

Volume 37 Issue 3

We show that partial evaluation can be usefully viewed as a programming model for realizing mixed-initiative functionality in interactive applications. Mixed-initiative interaction between two participants is one where the parties can take turns at any time to change and steer the flow of interaction. We concentrate on the facet of mixed-initiative referred to as 'unsolicited reporting' and demonstrate how out-of-turn interactions by users can be modeled by 'jumping ahead' to nested dialogs (via ...

7 Document Databases: Bridging XML-schema and relational databases: a 77%


 system for generating and manipulating relational databases using valid XML documents

Iraklis Varlamis , Michalis Vazirgiannis

Proceedings of the 2001 ACM Symposium on Document engineering November 2001

Many organizations and enterprises establish distributed working environments, where different users need to exchange information based on a common model. XML is widely used to facilitate this information exchange. The extensibility of XML allows the creation of generic models that integrate data from different sources. For these tasks, several applications are used to import and export information in XML format from the data repositories. In order to support this process for relational repositories ...

8 Survey of software tools for evaluating reliability, availability, and 77%

 serviceability

Allen M. Johnson , Miroslaw Malek

ACM Computing Surveys (CSUR) September 1988

Volume 20 Issue 4

In computer design, it is essential to know the effectiveness of different design options in improving performance and dependability. Various software tools have been created to evaluate these parameters, applying both analytic and simulation techniques, and this paper reviews those related primarily to reliability, availability, and serviceability. The purpose, type of models used, type of systems modeled, inputs, and outputs are given for each package. Examples of some of the key modeling ...

9 A vision for management of complex models

77%



Phillip A. Bernstein , Alon Y. Halevy , Rachel A. Pottinger

ACM SIGMOD Record December 2000

Volume 29 Issue 4

Many problems encountered when building applications of database systems involve the manipulation of models. By "model," we mean a complex structure that represents a design artifact, such as a relational schema, object-oriented interface, UML model, XML DTD, web-site schema, semantic network, complex document, or software configuration. Many uses of models involve managing changes in models and transformations of data from one model into another. These uses require an explicit representation of ...

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